SEP 13 1949

From the INTERNATIONAL SEARCHING AUTHORITY

PATENT RECORDS CENTER

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION

(PCT Rule 44.1)

To: E.I. DU PONT DE NEMOURS AND COMPANY Legal/Patent Records Center 1007 Market Street Wilmington, Delaware 19898 UNITED STATES OF AMERICA

Date of mailing (day/month/year) 03/09/1999 Applicant's or agent's file reference FOR FURTHER ACTION See paragraphs 1 and 4 below BB1165 International application No. International filing date (day/month/year) 22/04/1999 PCT/US 99/08791 Applicant DIL PONT DE NEMOURS AND COMPANY et al

	• •	00 1011	1 02 112110	
. [William Was Indiana County Deposit here have getablished and in transmitted because the
1. [X	The applic	ant is hereby n	otified that the International Search Report has been established and is transmitted herewith.
		Filing of a The applic	mendments a ant is entitled, i	nd statement under Article 19: If he so wishes, to amend the claims of the International Application (see Rule 46):
		When? T	The time limit fonternational Se	or filing such amendments is normally 2 months from the date of transmittal of the arch Report; however, for more details, see the notes on the accompanying sheet.
		Where?	Directly to the	International Bureau of WIPO 34. chemin des Colombettes 1211 Geneva 20. Switzerland Fascimile No.: (41-22) 740.14.35
		For more	detailed instru	actions, see the notes on the accompanying sheet.
2. [The applic Article 17(2	ant is hereby n 2)(a) to that effe	otified that no International Search Report will be established and that the declaration under ect is transmitted herewith.
3. [With rega	rd to the prote	est against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:
		the p	rotest together cant's request t	with the decision thereon has been transmitted to the International Bureau together with the to forward the texts of both the protest and the decision thereon to the designated Offices.
		no de	ecision has bee	en made yet on the protest; the applicant will be notified as soon as a decision is made.
4. 1	Furtl	her action(s): The appli	icant is reminded of the following:
;	If the	hé applican prity claim, i	t wishes to avo must reach the	he priority date, the international application will be published by the International Bureau. id or postpone publication, a notice of withdrawal of the international application, or of the International Bureau as provided in Rules 90 <i>bis</i> .1 and 90 <i>bis</i> .3, respectively, before the reparations for international publication.
١	Withi wis	in 1 9 montl shes to post	hs from the price tpone the entry	ority date, a demand for international preliminary examination must be filed if the applicant into the national phase until 30 months from the priority date (in some Offices even later).
١	bet	fore all desi	anated Offices	ority date, the applicant must perform the prescribed acts for entry into the national phase which have not been elected in the demand or in a later election within 19 months from the elected because they are not bound by Chapter II.

Name and mailing address of the International Searching Authority

European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040. Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

Authorized officer

Sandra De Jong-van Dam CLS NOTED

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international pbulication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been fis filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled
- (iii) the claim is new:
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
 claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]:
 "Claims 1 to 15 replaced by amended claims 1 to 11."
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 - "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference BB1165		of Transmittal of International Search Report 220) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/US 99/08791	22/04/1999	24/04/1998
Applicant E.I. DU PONT DE NEMOURS AF	ND COMPANY et al.	
according to Article 18. A copy is being tra This International Search Report consists	_	
	nternational search was carried out on the bases otherwise indicated under this item.	sis of the international application in the
the international search w Authority (Rule 23.1(b)).	as carried out on the basis of a translation of t	he international application furnished to this
was carried out on the basis of the X contained in the internatio filed together with the inte furnished subsequently to furnished subsequently to the statement that the sub international application as	e sequence listing: nal application in written form. rnational application in computer readable for this Authority in written form. this Authority in computer readble form. sequently furnished written sequence listing d s filed has been furnished.	
Certain claims were four Unity of invention is lack	nd unsearchable (See Box I). king (see Box II).	
4. With regard to the title , X the text is approved as su the text has been establish	omitted by the applicant. ned by this Authority to read as follows:	
	* * * * * * * * * * * * * * * * * * * *	ty as it appears in Box III. The applicant may, port, submit comments to this Authority.
6. The figure of the drawings to be publi as suggested by the applicant fails	shed with the abstract is Figure No.	None of the figures.

International Application No PCT/US 99/08791

A. CLASS	FICATION OF SUBJECT MATTER C12N15/55 C12N15/82 C12N15/3 C12Q1/68	11 C12N9/16	C12N5/10
According to	o International Patent Classification (IPC) or to both national classific	ation and IPC	
	SEARCHED		
Minimum do IPC 6	ocumentation searched (classification system followed by classificati ${\tt C12N}$ ${\tt C12Q}$	ion symbols)	
Documenta	tion searched other than minimum documentation to the extent that s	such documents are included in th	ne fields searched
Electronic d	ata base consulted during the international search (name of data ba	ise and, where practical, search to	erms used)
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the rel	levant passages	Relevant to claim No.
Х	SASAKI T. ET AL.: "Rice cDNA fro	om shoot,	1
	AC D47093" EMBL DATABASE,9 March 1995 (1995-	-n2-na)	
	XP002112475	-U3 U97,	
	Heidelberg		
	the whole document		
X	GILLASPY ET AL: "PLANT INOSITOL MONOPHOSPHATASE IS A LITHIUM-SENS	SITIVE	1-5
	ENZYME ENCODED BY A MULTIGENE FAM		
	PLANT CELL,	_ ^1)	
	vol. 7, 1 December 1995 (1995-12- pages 2175-2185, XP002082091	-01),	
	ISSN: 1040-4651		
	the whole document		
	-	-/	
	her documents are listed in the continuation of box C.	X Patent family members	are listed in annex.
,	tegories of cited documents :	"T" later document published after or priority date and not in co	er the international filing date
consid	ent defining the general state of the art which is not lered to be of particular relevance		ciple or theory underlying the
"E" earlier o	document but published on or after the international late	"X" document of particular releva cannot be considered novel	
which	ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another n or other special reason (as specified)	involve an inventive step wh "Y" document of particular releva	en the document is taken alone nce; the claimed invention
"O" docume	ent referring to an oral disclosure, use, exhibition or	document is combined with	olve an inventive step when the one or more other such docu-
	ent published prior to the international filing date but	in the art.	eing obvious to a person skilled
	aan the priority date claimed actual completion of the international search	"&" document member of the san Date of mailing of the interna	
	3 August 1999	03/09/1999	world soars, report
Name and n	nailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer	
	NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,	Kania, T	İ
	Fax: (+31-70) 340-3016	Kuiiia, i	

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International Application No
PCT/US 99/08791

·	Unation) DOCUMENTS CONSIDERED TO BE RELEVANT	Relovant to claim No.
Category 3	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GILLASPY, GLENDA: "Transgenic reduction of inositol monophosphatase disrupts vegetative development." PLANT PHYSIOLOGY (ROCKVILLE), (1997) VOL. 114, NO. 3 SUPPL., PP. 314. MEETING INFO.: PLANT BIOLOGY '97: 1997 ANNUAL MEETINGS OF THE AMERICAN SOCIETY OF PLANT PHYSIOLOGISTS AND THE CANADIAN SOCIETY OF PLANT PHYSIOLOGISTS, JAPANESE SOCIETY OF PLANT PHY, XPO02112476 abstract	1-5
X	MATSUHISA A. ET AL.: "Inositol monophosphatase activity from the Escherichia coli cuhB gene product" JOURNAL OF BACTERIOLOGY, vol. 177, no. 1, 1995, pages 200-205, XP002112923 the whole document	6,8,9
Α	QUINTERO F J ET AL: "THE SAL1 GENE OF ARABIDOPSIS, ENCODING AN ENZYME WITH 3'(2'),5'- BISPHOSPHATE NUCLEOTIDASE AND INOSITOL POLYPHOSPHATE 1-PHOSPHATASE ACTIVITIES, INCREASES SALT TOLERANCE IN YEAST" PLANT CELL, (MAR 1996) VOL. 8, NO. 3, PP. 529-537. ISSN: 1040-4651., XP002112477 the whole document	1-5, 11-15
Α	LI J ET AL: "Secretion of active recombinant phytase from soybean cell-suspension cultures." PLANT PHYSIOLOGY, (1997 JUL) 114 (3) 1103-11., XP002112478 the whole document	1-5, 11-15
Α	WO 98 05785 A (AGRONOMIQUE INST NAT RECH ;MAUGENEST SEBASTIEN (FR); PEREZ PASCUAL) 12 February 1998 (1998-02-12) the whole document	1-5, 11-15
Α	WO 91 14782 A (MOGEN INT ;GIST BROCADES NV (NL)) 3 October 1991 (1991-10-03) the whole document	1-5, 11-15
T	WO 99 05298 A (PIONEER HI BRED INT ;BEACH LARRY R (US); WANG HONGYU (US); WANG XU) 4 February 1999 (1999-02-04) the whole document	1-5, 11-15
T	WO 99 07211 A (EXSEED GENETICS L L C;CHANG MING TANG (US); GUAN HANPING (US); KE) 18 February 1999 (1999-02-18) the whole document	1-5, 11-15

3

Information on patent family members

International Application No
PCT/US 99/08791

Patent document cited in search repor	t	Publication date		ratent family member(s)	Publication date
WO 9805785	Α	12-02-1998	FR	2751987 A	06-02-1998
	•		AU	3944697 A	25-02-1998
WO 9114782	 A	03-10-1991	AU	649447 B	26-05-1994
			AU	7765691 A	21-10-1991
			AU	632941 B	14-01-1993
			AU	7776691 A	21-10-1991
			CA	2054762 A	24-09-1991
			CA	2056396 A	24-09-1991
			EP	0449375 A	02-10-1991
			EP	0449376 A	02-10-1991
			HU	215164 B	28-10-1998
			HU	215260 B	30-11-1998
			ΙL	97645 A	18-03-1997
			JP	6501838 T	03-03-1994
			JP	6502296 T	17-03-1994
			WO	9114772 A	03-10-1991
			PT	97110 A,B	29-11-1991
			PT	97111 A	31-12-1991
			US	5543576 A	06-08-1996
			US	5714474 A	03-02-1998
			US	5593963 A	14-01-1997
			US	5770413 A	23-06-1998
WO 9905298	Α	04-02-1999	AU	8487598 A	16-02-1999
WO 9907211	Α	18-02-1999	 AU	9017698 A	01-03-1999



From the INTERNATIONAL SEARCHING AUTHORITY	PCT
1007 Market Street Wilmington, Delaware 19898 UNITED STATES OF AMERICA	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION SEP 0 8 1999 (PCT Rule 44.1) TENT RECORDS
	Date of mailing (day/month/year) 03/09/1999
Applicant's or agent's file reference BB1165A	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No. PCT/US 99/ 08790	International filing date (day/month/year) 22/04/1999
Applicant	
E.I. DU PONT DE NEMOURS AND COMPANY et a	1.
The applicant is hereby notified that the International Search Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claim When? The time limit for filing such amendments is normal International Search Report; however, for more det Where? Directly to the International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Fascimile No.: (41-22) 740.14.35 For more detailed instructions, see the notes on the accor The applicant is hereby notified that no International Search Article 17(2)(a) to that effect is transmitted herewith. With regard to the protest against payment of (an) addition the protest together with the decision thereon has been applicant's request to forward the texts of both the protest no decision has been made yet on the protest; the appli	s of the International Application (see Rule 46): Illy 2 months from the date of transmittal of the tails, see the notes on the accompanying sheet. Impanying sheet. Report will be established and that the declaration under that fee(s) under Rule 40.2, the applicant is notified that: In transmitted to the International Bureau together with the test and the decision thereon to the designated Offices.
4. Further action(s): The applicant is reminded of the following: Shortly after 18 months from the priority date, the international applif the applicant wishes to avoid or postpone publication, a notice priority claim, must reach the International Bureau as provided in completion of the technical preparations for international publicate. Within 19 months from the priority date, a demand for international wishes to postpone the entry into the national phase until 30 months. Within 20 months from the priority date, the applicant must perform before all designated Offices which have not been elected in the	of withdrawal of the international application, or of the n Rules 90 <i>bis</i> .1 and 90 <i>bis</i> .3, respectively, before the tion. If preliminary examination must be filed if the applicant on the priority date (in some Offices even later). If the prescribed acts for entry into the national phase
priority date or could not be elected because they are not bound	uy Onapier II.

Authorized officer

Sandra De Jong-van Dam

Form PCT/ISA/220 (July 1998)

Name and mailing address of the International Searching Authority

NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, _ Fax: (+31-70) 340-3016

European Patent Office, P.B. 5818 Patentlaan 2

NOTES TO FORM PCT/ISA/220

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The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended, it must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
 claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- [Where various kinds of amendments are made]:
 "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference		of Transmittal of International Search Report 220) as well as, where applicable, item 5 below.
BB1165A International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
207 (110 00 (00 700	22/04/1000	24/04/1009
PCT/US 99/ 08790	22/04/1999	24/04/1998
Applicant	·	
E.I. DU PONT DE NEMOURS A	ND COMPANY et al.	
This International Search Report has bee according to Article 18. A copy is being tra	n prepared by this International Searching Autlansmitted to the International Bureau.	hority and is transmitted to the applicant
This International Search Report consists X It is also accompanied by	of a total of Sheets. a copy of each prior art document cited in this	report.
Basis of the report		
	international search was carried out on the bases otherwise indicated under this item.	sis of the international application in the
the international search w Authority (Rule 23.1(b)).	as carried out on the basis of a translation of t	he international application furnished to this
was carried out on the basis of the		nternational application, the international search
	nal application in written form.	
1 = 1	rnational application in computer readable for	n.
furnished subsequently to	this Authority in written form.	
	this Authority in computer readble form.	
	sequently furnished written sequence listing d s filed has been furnished.	oes not go beyond the disclosure in the
the statement that the info furnished	ormation recorded in computer readable form is	s identical to the written sequence listing has been
2. Certain claims were fou	nd unsearchable (See Box I).	
3. Unity of invention is lac	king (see Box II).	
4. With regard to the title,		
X the text is approved as su	bmitted by the applicant.	
the text has been establis	hed by this Authority to read as follows:	
5. With regard to the shotungt		
 With regard to the abstract, the text is approved as su 	hmitted by the applicant	
the text has been establis	brifficed by the applicant. hed, according to Rule 38.2(b), by this Authorit date of mailing of this international search rep	
6. The figure of the drawings to be publ	ished with the abstract is Figure No.	1
X as suggested by the appli	•	None of the figures.
because the applicant fail	ed to suggest a figure.	_
because this figure better	characterizes the invention.	

International Application No PCT/US 99/08790

. CLASSIFICATION OF SUBJECT MATTER PC 6 C12N15/54 C12N IPC 6 C12N15/82 C12N15/11 C12N9/12 C12N5/10 C12Q1/68 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) C12N C120 IPC 6 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Category 3 Relevant to claim No. SASAKI T.: "AC C72860" χ 1,3,4 EMBL DATABASE. 19 September 1997 (1997-09-19). XP002112940 Heidelberg the whole document χ WILSON ET AL: "characterization of a cDNA 1-10 encoding Arabidopsis thaliana Inositol 1,3,4,-trisphosphate 5/6-kinase" BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, vol. 232, no. 3 1 March 1997 (1997-03-01), pages 678-681, XP002082094 ISSN: 0006-291X abstract -/-χ Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention filing date cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another "Y" document of particular relevance; the claimed invention citation or other special reason (as specified) cannot be considered to involve an inventive step when the "O" document referring to an oral disclosure, use, exhibition or document is combined with one or more other, such document ments, such combination being obvious to a person skilled in the art. "P" document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 23 August 1999 03/09/1999 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Kania, T Fax: (+31-70) 340-3016

International Application No PCT/US 99/08790

		PC1/US 99/08/90
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category '	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	GILLASPY, GLENDA: "Transgenic reduction of inositol monophosphatase disrupts vegetative development." PLANT PHYSIOLOGY (ROCKVILLE), (1997) VOL. 114, NO. 3 SUPPL., PP. 314. MEETING INFO.: PLANT BIOLOGY '97: 1997 ANNUAL MEETINGS OF THE AMERICAN SOCIETY OF PLANT PHYSIOLOGISTS AND THE CANADIAN SOCIETY OF PLANT PHYSIOLOGISTS, JAPANESE SOCIETY OF PLANT PHY, XP002112476 abstract	1-10
Α	LI J ET AL: "Secretion of active recombinant phytase from soybean cell-suspension cultures." PLANT PHYSIOLOGY, (1997 JUL) 114 (3) 1103-11., XP000211478 the whole document	1-10
A	WO 98 05785 A (AGRONOMIQUE INST NAT RECH ;MAUGENEST SEBASTIEN (FR); PEREZ PASCUAL) 12 February 1998 (1998-02-12) the whole document	1-10
A	WO 91 14782 A (MOGEN INT ;GIST BROCADES NV (NL)) 3 October 1991 (1991-10-03) the whole document	1-10
P , X	WO 99 05298 A (PIONEER HI BRED INT ;BEACH LARRY R (US); WANG HONGYU (US); WANG XU) 4 February 1999 (1999-02-04) the whole document	1-10
T	WO 99 07211 A (EXSEED GENETICS L L C;CHANG MING TANG (US); GUAN HANPING (US); KE) 18 February 1999 (1999-02-18) the whole document	1-10

Information on patent family members

International Application No
PCT/US 99/08790

Patent docume cited in search re				Patent family member(s)	Publication date
WO 9805785 A		12-02-1998	FR	2751987 A	06-02-1998
			AÜ	3944697 A	25-02-1998
WO 9114782	Α	03-10-1991	AU	649447 B	26-05-1994
			AU	7765691 A	21-10-1993
			ΑU	632941 B	14-01-1993
			AU	7776691 A	21-10-1991
			CA	2054762 A	24-09-1991
			CA	2056396 A	24-09-1991
			EP	0449375 A	02-10-1991
			EΡ	0449376 A	02-10-1991
			HU	215164 B	28-10-1998
			HU	215260 B	30-11-1998
			IL	97645 A	18-03-1997
			JP	6501838 T	03-03-1994
			JP	6502296 T	17-03-1994
			WO	9114772 A	03-10-1991
			PT	97110 A,B	29-11-1991
			PT	97111 A	31-12-1991
			US	5543576 A	06-08-1996
			US	5714474 A	03-02-1998
			US	5593963 A	14-01-1997
		· · · · · · · · · · · · · · · · · · ·	US	5770413 A	23-06-1998
WO 9905298	Α	04-02-1999	AU	8487598 A	16-02-1999
WO 9907211	Α	18-02-1999	AU	9017698 A	01-03-1999